

WIC PNSS & PedNSS

Run Date: 5/25/2023

Table 4B

2022 Pediatric Nutrition Surveillance ⁽¹⁾

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Michigan

Comparison of Racial and Ethnic Distribution by County

Children Aged < 5 Years ⁽²⁾

Comparison of Racial and Ethnic Distribution								
County	Number Included in Analysis (3,4)	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Alcona	144	88.9	0.0	2.8	0.0	0.0	8.3	0.0
Alger	107	82.2	0.0	0.9	7.5	0.0	9.3	0.0
Allegan	1,810	66.3	1.7	21.8	0.1	0.0	9.9	0.2
Alpena	581	90.4	0.2	3.8	0.0	0.3	5.3	0.0
Antrim	313	85.3	0.0	4.2	0.6	0.0	9.9	0.0
Arenac	404	91.3	0.0	4.0	0.0	0.0	4.5	0.2
Baraga	196	43.4	0.0	5.1	24.0	0.0	27.6	0.0
Barry	840	85.8	1.5	7.5	0.4	0.1	4.6	0.0
Bay	2,158	67.2	2.5	17.1	0.0	0.2	12.8	0.1
Benzie	294	89.1	0.0	6.5	0.7	0.0	3.7	0.0
Berrien	2,573	44.9	33.9	10.4	0.2	1.4	9.0	0.3
Branch	1,272	79.7	3.0	12.6	0.2	0.4	4.2	0.0
Calhoun	3,483	50.6	19.8	9.9	0.2	4.8	14.6	0.1
Cass	1,085	47.8	7.2	30.0	0.4	0.0	14.1	0.5
Charlevoix	450	83.8	0.4	7.6	0.0	0.0	8.2	0.0
Cheboygan	423	82.7	0.7	2.4	0.0	0.0	14.2	0.0
Chippewa	626	41.4	0.2	5.1	20.9	0.3	32.1	0.0
Clare	827	90.2	0.2	5.4	0.0	0.1	4.0	0.0
Clinton	527	77.4	0.9	14.4	0.0	0.0	7.2	0.0
Crawford	355	84.8	0.3	8.5	0.3	0.0	6.2	0.0
Delta	685	77.7	0.0	3.1	1.5	0.1	17.7	0.0

(1) Reporting period is January 1 through December 31

(2) Analyses based on one record per child

(3) Excludes records with unknown data errors.

(4) Prenatal program participation

* National includes previous year's data for all participating States and ITOs.

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Comparison of Racial and Ethnic Distribution by County

Children Aged < 5 Years ⁽²⁾

Comparison of Racial and Ethnic Distribution								
County	Number Included in Analysis (3,4)	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Dickinson	540	97.2	0.0	0.7	0.0	0.2	1.7	0.2
Eaton	928	73.5	5.0	12.6	0.0	1.2	7.8	0.0
Emmet	488	82.0	0.6	5.9	1.4	0.0	10.0	0.0
Genesee	9,820	42.2	37.5	8.3	0.1	0.2	11.8	0.0
Gladwin	568	93.7	0.7	2.1	0.0	0.2	3.3	0.0
Gogebic	243	81.5	0.8	3.7	3.7	0.0	10.3	0.0
Gr Travers	1,461	73.6	0.3	12.8	1.4	0.5	11.4	0.0
Gratiot	740	75.8	0.0	18.8	0.0	0.0	5.4	0.0
Hillsdale	824	88.7	0.4	5.8	0.2	0.1	4.6	0.1
Houghton	732	85.4	1.1	3.8	0.7	1.1	7.9	0.0
Huron	516	89.9	0.0	6.6	0.0	0.0	3.5	0.0
Ingham	7,627	31.9	26.0	20.8	0.1	4.9	16.2	0.0
Ionia	1,136	77.5	0.0	14.8	0.0	0.0	7.7	0.0
Iosco	502	83.3	0.4	7.2	0.0	0.0	9.0	0.2
Iron	270	93.3	0.0	2.2	0.0	0.0	4.4	0.0
Isabella	1,477	70.8	3.5	10.6	2.7	0.9	11.4	0.0
Jackson	3,799	58.9	13.4	10.3	0.1	0.3	17.0	0.0
Kalamazoo	4,479	38.5	34.8	12.1	0.0	0.5	13.0	1.1
Kalkaska	374	85.8	0.8	5.9	0.0	0.3	6.4	0.8
Kent	12,188	24.3	26.2	35.5	0.1	5.4	8.5	0.0
Lake	256	59.4	9.8	8.2	0.4	0.0	22.3	0.0

(1) Reporting period is January 1 through December 31

(2) Analyses based on one record per child

(3) Excludes records with unknown data errors.

(4) Prenatal program participation

* National includes previous year's data for all participating States and ITOs.

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Michigan

Comparison of Racial and Ethnic Distribution by County

Children Aged < 5 Years ⁽²⁾

Comparison of Racial and Ethnic Distribution								
County	Number Included in Analysis (3,4)	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Lapeer	1,488	78.3	0.9	14.8	0.0	0.3	5.7	0.1
Leelanau	135	51.1	0.0	23.7	11.1	0.0	14.1	0.0
Lenawee	1,628	62.2	1.8	25.7	0.2	0.2	9.3	0.6
Livingston	1,574	85.5	1.3	5.7	0.0	0.3	7.2	0.0
Luce	185	74.1	0.0	3.2	10.3	0.0	12.4	0.0
Mackinac	157	35.7	0.0	1.9	1.3	0.0	61.1	0.0
Macomb	12,650	45.9	28.8	5.5	0.1	8.8	10.9	0.1
Manistee	417	77.0	0.7	10.8	1.0	0.0	10.6	0.0
Marquette	932	83.2	0.4	4.9	0.9	0.1	10.3	0.2
Mason	554	72.2	0.2	16.1	0.0	0.4	11.2	0.0
Mecosta	1,073	80.2	3.0	5.6	0.0	0.5	10.7	0.0
Menominee	241	61.4	0.4	11.2	6.6	0.0	20.3	0.0
Midland	1,310	80.5	1.5	9.1	0.0	0.2	8.7	0.1
Missaukee	317	78.2	0.0	13.6	0.0	0.0	8.2	0.0
Monroe	2,551	69.5	6.0	10.2	0.0	0.3	14.0	0.1
Montcalm	1,284	88.9	0.2	7.8	0.0	0.0	3.1	0.1
Montmorenc	160	90.0	0.0	1.9	0.6	0.0	7.5	0.0
Muskegon	4,142	47.9	24.1	14.1	0.2	0.1	13.4	0.1
Newaygo	1,653	68.6	0.7	23.7	0.0	0.0	6.8	0.2
Oakland	13,319	38.8	37.9	13.4	0.1	2.1	7.7	0.0
Oceana	656	52.7	0.3	43.3	0.0	0.0	3.5	0.2

(1) Reporting period is January 1 through December 31

(2) Analyses based on one record per child

(3) Excludes records with unknown data errors.

(4) Prenatal program participation

* National includes previous year's data for all participating States and ITOs.

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Michigan

Comparison of Racial and Ethnic Distribution by County

Children Aged < 5 Years ⁽²⁾

Comparison of Racial and Ethnic Distribution								
County	Number Included in Analysis (3,4)	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Ogemaw	466	87.6	0.2	6.0	0.0	0.0	6.2	0.0
Ontonagon	68	*	*	*	*	*	*	*
Osceola	671	88.8	0.9	5.4	0.3	0.0	4.5	0.1
Oscoda	166	94.0	0.0	3.6	0.0	0.0	2.4	0.0
Otsego	518	91.7	0.8	3.3	0.0	0.0	4.2	0.0
Ottawa	3,859	49.8	3.9	36.6	0.1	1.8	7.7	0.1
Presque Is	131	87.8	0.0	8.4	0.0	0.0	3.8	0.0
Roscommon	440	91.4	0.5	2.7	0.0	0.0	5.0	0.5
Saginaw	4,992	30.5	31.5	21.7	0.0	0.3	15.9	0.0
Sanilac	683	91.5	0.1	4.8	0.0	0.0	3.5	0.0
Schoolcraf	145	60.7	1.4	2.8	16.6	0.0	18.6	0.0
Shiawassee	1,461	82.0	0.2	9.6	0.0	0.0	8.1	0.1
St Clair	2,370	71.5	4.1	9.5	0.1	0.0	14.7	0.1
St Joseph	1,610	58.2	0.2	27.9	0.1	0.0	13.6	0.0
Tuscola	1,194	88.4	1.2	5.9	0.0	0.1	4.4	0.0
Van Buren	1,688	54.6	2.7	35.6	0.1	0.2	6.1	0.7
Washtenaw	4,368	30.7	38.7	13.1	0.1	3.0	14.3	0.1
Wayne	51,796	27.5	54.0	10.9	0.1	3.0	4.4	0.1
Wexford	995	86.7	0.3	5.4	0.0	0.1	7.4	0.0
Michigan	192,248	46.1	28.3	13.9	0.3	2.4	9.0	0.1

(1) Reporting period is January 1 through December 31

(2) Analyses based on one record per child

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(4) Prenatal program participation

* National includes previous year's data for all participating States and ITOs.

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Michigan
Comparison of Racial and Ethnic Distribution by County
Children Aged < 5 Years ⁽²⁾

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National (Prior Year)	609,559	37.8	27.2	24.6	0.9	3.0	6.4	0.1
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(1) Reporting period is January 1 through December 31

(2) Analyses based on one record per child

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Michigan

Comparison of Age Distribution by County

Children Aged < 5 Years ⁽²⁾

Comparison of Age Distribution				
County	Number Included in Analysis (3,4)	0 - 11 Months %	12 - 23 Months %	24 - 59 Months %
Alcona	144	36.8	16.0	47.2
Alger	107	24.3	17.8	57.9
Allegan	1,810	32.3	21.3	46.3
Alpena	581	34.4	20.7	44.9
Antrim	313	38.7	15.7	45.7
Arenac	404	31.7	22.3	46.0
Baraga	196	35.2	20.9	43.9
Barry	840	31.8	17.0	51.2
Bay	2,158	24.1	26.8	49.0
Benzie	294	33.0	22.4	44.6
Berrien	2,573	39.6	17.6	42.8
Branch	1,272	35.1	19.5	45.4
Calhoun	3,483	35.9	18.6	45.5
Cass	1,085	32.3	18.7	49.0
Charlevoix	450	32.7	14.2	53.1
Cheboygan	423	38.1	15.6	46.3
Chippewa	626	41.5	17.1	41.4
Clare	827	29.9	20.4	49.7
Clinton	527	32.4	20.7	46.9
Crawford	355	30.7	18.9	50.4
Delta	685	35.9	21.3	42.8

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Michigan

Comparison of Age Distribution by County

Children Aged < 5 Years ⁽²⁾

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County	Number Included in Analysis (3,4)	0 - 11 Months %	12 - 23 Months %	24 - 59 Months %
Dickinson	540	32.0	16.7	51.3
Eaton	928	33.4	17.2	49.4
Emmet	488	33.4	15.4	51.2
Genesee	9,820	32.0	18.6	49.4
Gladwin	568	27.1	18.8	54.0
Gogebic	243	30.0	18.1	51.9
Gr Travers	1,461	30.9	21.0	48.1
Gratiot	740	30.9	21.1	48.0
Hillsdale	824	36.7	17.7	45.6
Houghton	732	31.6	19.0	49.5
Huron	516	36.8	16.7	46.5
Ingham	7,627	30.5	18.3	51.1
Ionia	1,136	32.7	18.9	48.3
Iosco	502	31.7	20.1	48.2
Iron	270	34.8	12.6	52.6
Isabella	1,477	33.0	17.7	49.3
Jackson	3,799	31.0	19.5	49.5
Kalamazoo	4,479	34.7	18.2	47.1
Kalkaska	374	29.1	21.4	49.5
Kent	12,188	35.7	16.6	47.7
Lake	256	29.7	22.3	48.0

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Michigan

Comparison of Age Distribution by County

Children Aged < 5 Years ⁽²⁾

Comparison of Age Distribution				
County	Number Included in Analysis (3,4)	0 - 11 Months %	12 - 23 Months %	24 - 59 Months %
Lapeer	1,488	32.1	17.6	50.3
Leelanau	135	32.6	22.2	45.2
Lenawee	1,628	35.2	17.8	47.1
Livingston	1,574	29.8	17.5	52.7
Luce	185	33.0	15.7	51.4
Mackinac	157	26.8	18.5	54.8
Macomb	12,650	33.2	19.3	47.5
Manistee	417	23.3	19.9	56.8
Marquette	932	25.8	24.9	49.4
Mason	554	29.2	19.0	51.8
Mecosta	1,073	27.7	22.6	49.7
Menominee	241	38.6	19.1	42.3
Midland	1,310	37.8	16.3	46.0
Missaukee	317	29.7	17.4	53.0
Monroe	2,551	34.7	19.1	46.2
Montcalm	1,284	34.1	19.7	46.2
Montmorenc	160	42.5	16.9	40.6
Muskegon	4,142	33.7	19.4	46.9
Newaygo	1,653	26.1	20.4	53.5
Oakland	13,319	35.2	18.4	46.4
Oceana	656	26.7	21.3	52.0

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Michigan

Comparison of Age Distribution by County

Children Aged < 5 Years ⁽²⁾

Comparison of Age Distribution				
County	Number Included in Analysis (3,4)	0 - 11 Months %	12 - 23 Months %	24 - 59 Months %
Ogemaw	466	32.8	17.4	49.8
Ontonagon	68	*	*	*
Osceola	671	30.4	20.0	49.6
Oscoda	166	31.3	19.9	48.8
Otsego	518	37.1	19.5	43.4
Ottawa	3,859	32.3	20.5	47.2
Presque Is	131	38.2	19.1	42.7
Roscommon	440	32.3	18.9	48.9
Saginaw	4,992	32.2	17.9	49.9
Sanilac	683	36.5	18.6	44.9
Schoolcraf	145	35.9	16.6	47.6
Shiawassee	1,461	31.2	18.9	49.9
St Clair	2,370	30.0	17.6	52.4
St Joseph	1,610	32.4	16.9	50.7
Tuscola	1,194	32.0	15.7	52.3
Van Buren	1,688	32.7	19.8	47.5
Washtenaw	4,368	31.6	19.2	49.3
Wayne	51,796	33.1	18.5	48.4
Wexford	995	30.3	17.8	52.0
Michigan	192,248	33.0	18.7	48.3

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Michigan

Comparison of Age Distribution by County

Children Aged < 5 Years ⁽²⁾

National (Prior Year)	609,559	33.1	22.4	44.4
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(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Records rejected if date of birth and date of visit unknown.

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Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years ⁽²⁾

Comparison of Growth and Anemia Indicators ^(3,4)

County	Birth Weight (5)			Height and Weight (6,7)						Anemia Low Hb/Hct (8)		
	Low		High	Short Stature		Under- Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Alcona	35	*	*	60	*	*	*	27	*	*	31	*
Alger	13	*	*	89	*	*	*	48	*	*	72	*
Allegan	402	12.9 (41)	5.7 (17)	1,629	8.7 (36)	3.4 (11)	10.9 (23)	725	16.1 (27)	12.4 (6)	1,051	13.3 (24)
Alpena	127	10.2 (24)	7.1 (40)	305	17.7 (65)	7.9 (42)	19.0 (67)	118	18.6 (36)	18.6 (28)	109	16.5 (29)
Antrim	65	*	*	296	7.8 (24)	7.8 (40)	14.9 (55)	138	13.8 (13)	13.0 (8)	177	5.6 (6)
Arenac	77	*	*	253	8.7 (36)	5.9 (27)	17.8 (64)	109	16.5 (30)	25.7 (40)	140	2.1 (1)
Baraga	42	*	*	22	*	*	*	7	*	*	7	*
Barry	178	10.7 (29)	5.1 (14)	143	10.5 (46)	5.6 (24)	9.1 (12)	71	*	*	60	*
Bay	426	13.4 (45)	6.1 (24)	570	9.5 (40)	6.5 (32)	12.1 (36)	121	16.5 (30)	18.2 (24)	87	*
Benzie	68	*	*	195	4.1 (2)	5.1 (20)	12.8 (46)	91	*	*	112	17.0 (31)
Berrien	626	13.1 (43)	6.1 (24)	1,053	11.0 (50)	3.8 (14)	11.8 (33)	438	18.5 (35)	15.5 (19)	673	7.4 (9)
Branch	269	8.2 (10)	7.1 (40)	443	15.3 (63)	7.2 (37)	11.5 (28)	100	13.0 (7)	28.0 (43)	44	*
Calhoun	802	10.7 (29)	6.9 (37)	1,133	10.2 (44)	10.3 (55)	9.6 (17)	211	15.2 (22)	21.3 (35)	92	*

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one County's rate to other Counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age ≤ 2.3rd percentile, underweight is defined as weight-for-length ≤ 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as ≥ 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age ≥ 85th to < 95th percentile, and obesity is defined as ≥ 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years ⁽²⁾

Comparison of Growth and Anemia Indicators ^(3,4)

Comparison of Growth and Anemia Indicators (3,4)												
County	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low	High		Short Stature	Under- Weight	Obese		≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Cass	237	6.8 (3)	6.3 (28)	996	5.4 (7)	1.8 (4)	12.1 (36)	478	16.3 (28)	15.3 (18)	631	11.6 (21)
Charlevoix	62	*	*	406	5.9 (10)	5.2 (21)	11.3 (26)	218	14.2 (14)	11.9 (5)	271	15.1 (27)
Cheboygan	107	10.3 (26)	7.5 (46)	217	8.8 (38)	7.8 (40)	11.5 (28)	74	*	*	81	*
Chippewa	150	7.3 (5)	9.3 (53)	433	15.9 (64)	11.1 (59)	15.9 (59)	158	10.1 (2)	18.4 (27)	123	7.3 (8)
Clare	176	7.4 (6)	10.2 (54)	460	9.6 (41)	4.6 (17)	11.5 (28)	213	19.2 (39)	13.6 (9)	244	7.8 (12)
Clinton	117	14.5 (52)	8.5 (51)	90	*	*	*	27	*	*	22	*
Crawford	71	*	*	111	6.3 (12)	6.3 (29)	11.7 (32)	60	*	*	52	*
Delta	147	4.8 (1)	4.8 (9)	591	6.4 (13)	1.7 (2)	8.0 (8)	244	20.5 (42)	8.2 (2)	375	7.5 (10)
Dickinson	108	5.6 (2)	4.6 (7)	167	10.8 (47)	8.4 (47)	13.8 (52)	52	*	*	0	*
Eaton	221	16.7 (56)	5.9 (21)	186	17.7 (65)	9.1 (51)	10.8 (21)	70	*	*	18	*
Emmet	93	*	*	448	7.1 (17)	3.6 (13)	13.2 (48)	234	18.8 (37)	12.8 (7)	272	8.5 (17)
Genesee	2,147	13.7 (48)	6.5 (30)	1,699	13.3 (57)	11.5 (61)	13.0 (47)	367	14.2 (14)	25.6 (39)	65	*
Gladwin	104	10.6 (28)	5.8 (19)	417	9.6 (41)	5.8 (25)	8.2 (9)	207	19.3 (40)	11.6 (4)	269	13.0 (23)
Gogebic	46	*	*	73	*	*	*	36	*	*	35	*

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one County's rate to other Counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age ≤ 2.3rd percentile, underweight is defined as weight-for-length ≤ 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as ≥ 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age ≥ 85th to < 95th percentile, and obesity is defined as ≥ 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* National includes previous year's data for all participating States and ITOs

* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

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Table 6B

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Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years ⁽²⁾

Comparison of Growth and Anemia Indicators ^(3,4)

Comparison of Growth and Anemia Indicators (3,4)												
County	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low	High		Short Stature	Under- Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Gr Travers	312	11.9 (33)	7.4 (45)	588	4.9 (4)	9.4 (52)	7.5 (6)	188	15.4 (25)	13.8 (11)	156	16.7 (30)
Gratiot	145	9.7 (18)	4.8 (9)	119	11.8 (53)	7.6 (38)	10.9 (23)	26	*	*	27	*
Hillsdale	177	15.3 (54)	3.4 (2)	258	18.2 (67)	5.8 (25)	18.2 (66)	83	*	*	58	*
Houghton	141	9.2 (16)	5.0 (12)	37	*	*	*	13	*	*	21	*
Huron	116	8.6 (13)	11.2 (56)	389	5.4 (7)	2.6 (7)	11.1 (25)	169	21.3 (43)	11.2 (3)	246	4.9 (5)
Ingham	1,582	11.9 (33)	6.3 (28)	1,992	7.7 (22)	11.3 (60)	9.0 (11)	467	15.0 (21)	15.0 (17)	85	*
Ionia	238	9.7 (18)	5.0 (12)	696	5.9 (10)	5.5 (23)	10.6 (20)	283	15.9 (26)	14.8 (15)	424	3.5 (3)
Iosco	100	10.0 (23)	9.0 (52)	169	13.6 (58)	4.7 (18)	13.6 (50)	73	*	*	87	*
Iron	56	*	*	19	*	*	*	3	*	*	1	*
Isabella	337	9.2 (16)	7.1 (40)	707	10.9 (48)	9.6 (54)	13.6 (50)	258	19.8 (41)	22.5 (36)	180	11.7 (22)
Jackson	760	13.6 (46)	6.7 (35)	1,132	7.9 (28)	11.8 (63)	9.2 (14)	262	18.3 (34)	22.5 (36)	161	8.1 (13)
Kalamazoo	970	12.5 (37)	5.7 (17)	1,060	5.0 (5)	12.7 (66)	6.0 (3)	101	17.8 (33)	18.8 (31)	7	*
Kalkaska	73	*	*	116	7.8 (24)	6.9 (35)	8.6 (10)	45	*	*	54	*
Kent	2,715	14.0 (51)	5.2 (15)	10,474	7.9 (28)	3.1 (9)	12.7 (44)	4,805	15.2 (22)	14.8 (15)	6,638	11.1 (20)

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one County's rate to other Counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* National includes previous year's data for all participating States and ITOs

* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

WIC PNSS & PedNSS

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Table 6B

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Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years ⁽²⁾

Comparison of Growth and Anemia Indicators ^(3,4)

Comparison of Growth and Anemia Indicators (3,4)												
County	Birth Weight (5)			Height and Weight (6,7)						Anemia Low Hb/Hct (8)		
	Low	High		Short Stature	Under- Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Lake	55	*	*	51	*	*	*	19	*	*	17	*
Lapeer	301	10.3 (26)	7.0 (39)	227	4.8 (3)	10.6 (58)	5.7 (2)	26	*	*	8	*
Leelanau	19	*	*	85	*	*	*	48	*	*	48	*
Lenawee	341	7.9 (7)	6.5 (30)	619	15.0 (61)	12.1 (64)	16.3 (60)	223	15.2 (22)	26.0 (41)	8	*
Livingston	288	16.3 (55)	4.5 (6)	373	8.6 (35)	5.4 (22)	5.1 (1)	141	16.3 (28)	4.3 (1)	199	4.5 (4)
Luce	32	*	*	121	8.3 (33)	3.3 (10)	12.4 (40)	52	*	*	68	*
Mackinac	27	*	*	111	8.1 (32)	6.3 (29)	18.0 (65)	56	*	*	36	*
Macomb	2,778	14.6 (53)	4.2 (3)	1,565	11.1 (51)	9.5 (53)	10.8 (21)	479	14.8 (20)	15.9 (23)	195	8.7 (18)
Manistee	72	*	*	49	*	*	*	15	*	*	9	*
Marquette	196	11.2 (32)	4.6 (7)	269	7.8 (24)	8.9 (50)	7.1 (4)	71	*	*	54	*
Mason	118	10.2 (24)	5.9 (21)	129	9.3 (39)	8.5 (48)	7.8 (7)	39	*	*	23	*
Mecosta	225	8.0 (9)	4.4 (4)	318	7.5 (20)	7.9 (42)	16.4 (61)	157	13.4 (11)	19.1 (33)	59	*
Menominee	62	*	*	218	6.4 (13)	2.8 (8)	16.5 (62)	84	*	*	125	13.6 (25)
Midland	272	8.5 (12)	8.1 (49)	508	8.5 (34)	6.7 (34)	11.4 (27)	173	12.7 (5)	15.6 (21)	94	*

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one County's rate to other Counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age ≤ 2.3rd percentile, underweight is defined as weight-for-length ≤ 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as ≥ 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age ≥ 85th to < 95th percentile, and obesity is defined as ≥ 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* National includes previous year's data for all participating States and ITOs

* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

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Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years ⁽²⁾

Comparison of Growth and Anemia Indicators ^(3,4)

Comparison of Growth and Anemia Indicators (3,4)												
County	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low		High	Short Stature		Under- Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Missaukee	64	*	*	63	*	*	*	22	*	*	30	*
Monroe	575	8.9 (14)	7.1 (40)	762	11.8 (53)	12.6 (65)	12.6 (42)	166	13.3 (10)	26.5 (42)	56	*
Montcalm	271	12.5 (37)	2.6 (1)	222	9.9 (43)	7.7 (39)	9.9 (18)	60	*	*	63	*
Montmorenc	40	*	*	108	7.4 (19)	8.3 (45)	14.8 (54)	43	*	*	45	*
Muskegon	1,048	13.7 (48)	6.1 (24)	1,474	10.4 (45)	10.5 (57)	9.5 (16)	303	9.6 (1)	18.8 (31)	128	15.6 (28)
Newaygo	325	12.9 (41)	6.5 (30)	380	12.1 (55)	7.9 (42)	15.3 (58)	165	17.0 (32)	18.2 (24)	34	*
Oakland	2,959	13.2 (44)	6.1 (24)	3,688	12.2 (56)	10.3 (55)	12.5 (41)	1,024	14.7 (19)	18.6 (28)	290	22.8 (35)
Oceana	125	12.0 (35)	7.2 (44)	229	7.9 (28)	8.7 (49)	11.8 (33)	93	*	*	105	7.6 (11)
Ogemaw	102	6.9 (4)	4.9 (11)	264	5.3 (6)	3.4 (11)	12.1 (36)	118	12.7 (5)	18.6 (28)	174	6.9 (7)
Ontonagon	15	*	*	35	*	*	*	14	*	*	17	*
Osceola	136	12.5 (37)	8.1 (49)	153	7.8 (24)	2.0 (5)	15.0 (57)	69	*	*	107	8.4 (16)
Oscoda	35	*	*	78	*	*	*	27	*	*	45	*
Otsego	86	*	*	478	7.1 (17)	6.5 (32)	12.6 (42)	209	19.1 (38)	13.9 (12)	312	20.5 (33)
Ottawa	842	12.0 (35)	5.9 (21)	3,255	5.8 (9)	4.0 (15)	12.0 (35)	1,523	14.3 (16)	13.7 (10)	2,219	21.0 (34)

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one County's rate to other Counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age ≤ 2.3rd percentile, underweight is defined as weight-for-length ≤ 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as ≥ 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age ≥ 85th to < 95th percentile, and obesity is defined as ≥ 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* National includes previous year's data for all participating States and ITOs

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Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years ⁽²⁾

Comparison of Growth and Anemia Indicators ^(3,4)

Comparison of Growth and Anemia Indicators (3,4)												
County	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low	High		Short Stature	Under- Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Presque Is	33	*	*	79	*	*	*	34	*	*	29	*
Roscommon	97	*	*	228	7.9 (28)	7.0 (36)	14.9 (55)	97	*	*	101	3.0 (2)
Saginaw	994	13.6 (46)	5.3 (16)	975	6.8 (16)	12.8 (67)	7.4 (5)	104	10.6 (3)	20.2 (34)	28	*
Sanilac	155	9.7 (18)	6.5 (30)	242	13.6 (58)	1.7 (2)	17.4 (63)	103	11.7 (4)	15.5 (19)	171	8.2 (14)
Schoolcraf	30	*	*	121	3.3 (1)	0.0 (1)	13.2 (48)	53	*	*	81	*
Shiawassee	317	9.1 (15)	6.9 (37)	94	*	*	*	15	*	*	3	*
St Clair	517	9.9 (22)	6.8 (36)	1,331	7.7 (22)	4.4 (16)	12.2 (39)	556	13.1 (9)	18.2 (24)	712	14.3 (26)
St Joseph	340	8.2 (10)	10.3 (55)	361	15.0 (61)	8.3 (45)	12.7 (44)	70	*	*	37	*
Tuscola	229	7.9 (7)	7.9 (48)	627	6.4 (13)	6.1 (28)	11.6 (31)	277	13.0 (7)	14.1 (13)	339	10.0 (19)
Van Buren	357	10.9 (31)	7.6 (47)	1,528	7.5 (20)	2.5 (6)	14.2 (53)	713	14.3 (16)	14.4 (14)	969	8.2 (14)
Washtenaw	879	12.6 (40)	5.8 (19)	1,394	13.6 (58)	6.4 (31)	9.1 (12)	404	14.6 (18)	15.8 (22)	223	17.0 (31)
Wayne	11,157	13.7 (48)	4.4 (4)	6,554	11.5 (52)	11.7 (62)	10.3 (19)	1,035	13.5 (12)	23.7 (38)	9	*
Wexford	186	9.7 (18)	6.5 (30)	129	10.9 (48)	4.7 (18)	9.3 (15)	44	*	*	59	*

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one County's rate to other Counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age ≤ 2.3rd percentile, underweight is defined as weight-for-length ≤ 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as ≥ 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age ≥ 85th to < 95th percentile, and obesity is defined as ≥ 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* National includes previous year's data for all participating States and ITOs

* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

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Table 6B

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Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years ⁽²⁾

Michigan	41,355	12.5	5.7	59,763	9.3	7.2	11.5	20,353	15.2	16.5	20,598	11.8
National (Prior Year)	139,238	12.0	6.1	346,325	11.9	5.3	14.3	140,459	16.0	17.4	77,980	13.9

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one County's rate to other Counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age \leq 2.3rd percentile, underweight is defined as weight-for-length \leq 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as \geq 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age \geq 85th to < 95th percentile, and obesity is defined as \geq 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* National includes previous year's data for all participating States and ITOs

* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

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Table 7B

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Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5)														
County	Breastfeeding (6)						Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed	Number	% Breastfed At Least 6 Months	Number	% Breastfed At Least 12 Months	Number	% Breastfed At Least 3 Months	Number	% Breastfed At Least 6 Months	Number	%	Number	%
		(Rank)		(Rank)		(Rank)		(Rank)		(Rank)		(Rank)		(Rank)
Alcona	36	*	23	*	24	*	10	*	11	*	69	*	142	4.2 (64)
Alger	13	*	15	*	22	*	4	*	5	*	66	*	107	3.7 (54)
Allegan	408	67.9 (43)	279	41.9 (10)	339	22.1 (15)	126	46.8 (2)	129	26.4 (3)	871	87.9 (20)	1,796	3.3 (50)
Alpena	127	74.8 (30)	90	*	92	*	38	*	45	*	276	86.6 (27)	581	4.3 (65)
Antrim	71	*	58	*	48	*	32	*	37	*	156	85.3 (32)	313	7.0 (79)
Arenac	77	*	61	*	77	*	32	*	41	*	199	88.4 (17)	404	5.0 (74)
Baraga	42	*	29	*	26	*	12	*	25	*	91	*	196	3.6 (53)
Barry	178	82.0 (11)	82	*	98	*	48	*	62	*	430	85.1 (34)	840	2.0 (30)
Bay	430	74.0 (33)	258	30.2 (39)	414	16.9 (32)	96	*	165	9.7 (29)	1,132	86.0 (29)	2,157	2.2 (34)
Benzie	68	*	39	*	41	*	18	*	28	*	140	79.3 (57)	292	5.5 (76)
Berrien	627	74.0 (33)	452	37.6 (26)	346	18.2 (25)	232	35.3 (10)	256	21.5 (9)	1,149	72.1 (66)	2,532	3.7 (54)
Branch	275	62.9 (51)	211	38.4 (21)	183	15.3 (39)	86	*	94	*	619	80.1 (52)	1,267	1.8 (23)
Calhoun	810	66.9 (44)	557	38.2 (22)	593	17.0 (31)	175	41.1 (4)	204	23.5 (6)	1,669	94.6 (4)	3,482	0.6 (3)

(1) Reporting period is January 1 through December 31.

(2) TV Viewing and Smoking in Household data are not reported by all contributors.

(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

(5) Rank compares one County's rate to other Counties. Rank 1 = best rate.

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

* National includes previous year's data for all participating States and ITOs

* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

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Table 7B

2022 Pediatric Nutrition Surveillance ⁽¹⁾

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Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

County	Breastfeeding (6)				Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% (Rank)
Cass	242	83.1 (8)	177	48.0 (2)	177	22.6 (12)	111	47.7 (1)	118	33.1 (1)	558	97.3 (1)
Charlevoix	78	*	60	*	55	*	36	*	44	*	260	92.7 (7)
Cheboygan	107	80.4 (12)	65	*	67	*	36	*	42	*	213	83.6 (42)
Chippewa	152	65.1 (46)	99	*	80	*	34	*	37	*	280	88.9 (16)
Clare	176	73.3 (36)	122	40.2 (16)	135	17.8 (27)	69	*	69	*	449	84.4 (38)
Clinton	118	78.8 (15)	73	*	74	*	36	*	48	*	256	82.8 (44)
Crawford	73	*	58	*	53	*	31	*	42	*	177	76.8 (62)
Delta	148	76.4 (26)	125	40.8 (12)	137	22.6 (12)	74	*	83	*	320	79.7 (56)
Dickinson	106	78.3 (17)	96	*	84	*	52	*	61	*	299	93.0 (6)
Eaton	221	77.8 (20)	106	33.0 (34)	104	25.0 (6)	50	*	85	*	463	83.4 (43)
Emmet	95	*	76	*	71	*	39	*	55	*	264	79.9 (55)
Genesee	2,160	54.8 (56)	1,303	27.9 (41)	1,466	12.4 (44)	352	28.7 (20)	400	17.8 (19)	4,934	81.5 (49)
Gladwin	104	83.7 (5)	91	*	89	*	44	*	63	*	330	89.4 (12)

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(5) Rank compares one County's rate to other Counties. Rank 1 = best rate.

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

* National includes previous year's data for all participating States and ITOs

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Table 7B

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Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

County	Breastfeeding ⁽⁶⁾						Exclusive Breastfeeding ⁽⁷⁾		≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household	
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)
Gogebic	46	*	45	*	43	*	10	*	21	*	134	80.6 (51)
Gr Travers	316	85.4 (3)	201	47.8 (3)	261	30.7 (1)	103	38.8 (6)	126	17.5 (20)	723	84.8 (35)
Gratiot	148	75.7 (28)	96	*	124	23.4 (10)	37	*	54	*	363	82.6 (45)
Hillsdale	180	59.4 (53)	144	36.1 (29)	113	25.7 (4)	61	*	68	*	411	95.1 (2)
Houghton	143	88.1 (2)	112	60.7 (1)	106	30.2 (2)	72	*	85	*	387	92.2 (10)
Huron	116	83.6 (6)	70	*	57	*	51	*	52	*	251	84.1 (40)
Ingham	1,597	78.3 (17)	969	38.2 (22)	1,117	19.4 (21)	407	31.4 (17)	521	15.0 (24)	3,958	80.0 (53)
Ionia	240	78.3 (17)	214	44.4 (6)	207	16.9 (32)	117	37.6 (9)	130	25.4 (4)	581	83.8 (41)
Iosco	100	63.0 (50)	89	*	80	*	32	*	35	*	264	85.6 (31)
Iron	52	*	32	*	36	*	22	*	25	*	151	86.8 (26)
Isabella	338	72.5 (38)	195	33.3 (33)	192	16.7 (34)	80	*	97	*	766	81.7 (48)
Jackson	762	76.0 (27)	662	38.5 (20)	651	14.7 (40)	243	37.9 (8)	344	20.6 (10)	1,998	76.6 (63)
Kalamazoo	987	72.2 (39)	717	35.3 (31)	684	17.8 (27)	350	34.6 (12)	423	14.7 (25)	2,136	71.4 (67)

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(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

(5) Rank compares one County's rate to other Counties. Rank 1 = best rate.

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

* National includes previous year's data for all participating States and ITOs

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Table 7B

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Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

County	Breastfeeding (6)						Exclusive Breastfeeding (7)		≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% (Rank)
Kalkaska	73	*	56	*	71	*	33	*	40	*	183	89.1 (14)
Kent	2,756	68.1 (42)	1,985	40.6 (14)	1,753	20.4 (18)	878	27.4 (22)	968	18.4 (17)	4,995	76.9 (61)
Lake	55	*	30	*	46	*	11	*	20	*	130	77.7 (60)
Lapeer	304	75.3 (29)	240	40.4 (15)	256	16.4 (35)	120	34.2 (13)	154	13.0 (28)	770	88.1 (19)
Leelanau	20	*	21	*	17	*	8	*	13	*	69	*
Lenawee	341	78.9 (14)	233	38.6 (19)	235	21.7 (16)	103	42.7 (3)	137	27.0 (2)	814	78.5 (58)
Livingston	291	62.5 (52)	198	43.9 (8)	215	21.4 (17)	82	*	80	*	865	82.2 (46)
Luce	33	*	30	*	18	*	11	*	16	*	95	*
Mackinac	27	*	21	*	22	*	13	*	10	*	91	*
Macomb	2,797	66.1 (45)	2,096	31.4 (36)	2,246	13.5 (42)	888	26.5 (24)	1,014	13.2 (27)	6,275	86.0 (29)
Manistee	72	*	48	*	64	*	25	*	31	*	253	87.0 (25)
Marquette	198	84.3 (4)	100	41.0 (11)	159	22.6 (12)	34	*	37	*	492	94.7 (3)
Mason	118	83.1 (8)	70	*	93	*	42	*	45	*	304	86.2 (28)

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(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

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Table 7B

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Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

County	Breastfeeding (6)				Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)
Mecosta	226	73.5 (35)	153	37.9 (25)	201	24.9 (7)	39	*	57	*	509	87.8 (21)
Menominee	62	*	44	*	52	*	15	*	17	*	106	81.1 (50)
Midland	274	79.2 (13)	206	40.8 (12)	144	17.4 (29)	107	31.8 (16)	141	20.6 (10)	629	89.2 (13)
Missaukee	65	*	53	*	51	*	32	*	36	*	173	91.3 (11)
Monroe	581	51.5 (57)	396	31.1 (38)	383	19.3 (22)	158	38.0 (7)	168	23.2 (7)	1,255	84.3 (39)
Montcalm	275	77.5 (22)	194	34.0 (32)	171	24.0 (9)	76	*	114	16.7 (21)	621	84.5 (37)
Montmorenc	42	*	36	*	29	*	15	*	21	*	68	*
Muskegon	1,052	63.5 (49)	605	27.8 (42)	714	15.7 (37)	180	40.0 (5)	189	20.6 (10)	1,945	66.9 (71)
Newaygo	326	83.1 (8)	206	35.4 (30)	255	18.8 (23)	75	*	122	19.7 (15)	911	82.0 (47)
Oakland	3,017	70.3 (41)	1,956	38.1 (24)	1,850	20.3 (19)	857	30.8 (18)	1,040	19.1 (16)	6,447	69.0 (69)
Oceana	126	77.8 (20)	93	*	116	27.6 (3)	54	*	63	*	350	89.1 (14)
Ogemaw	103	74.8 (30)	75	*	68	*	36	*	42	*	250	80.0 (53)
Ontonagon	15	*	5	*	9	*	4	*	4	*	34	*

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Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

County	Breastfeeding ⁽⁶⁾						Exclusive Breastfeeding ⁽⁷⁾		≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household	
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)
Osceola	136	72.8 (37)	107	47.7 (4)	112	23.2 (11)	55	*	59	*	350	87.4 (23)
Oscoda	36	*	22	*	32	*	13	*	11	*	85	*
Otsego	117	78.6 (16)	93	*	79	*	56	*	68	*	242	76.0 (65)
Ottawa	881	77.1 (23)	549	44.1 (7)	660	24.1 (8)	267	34.1 (14)	276	24.6 (5)	1,578	94.0 (5)
Presque Is	33	*	18	*	22	*	12	*	16	*	62	*
Roscommon	98	*	79	*	69	*	31	*	44	*	235	92.3 (9)
Saginaw	1,000	64.9 (47)	672	25.9 (43)	687	12.4 (44)	294	27.6 (21)	342	13.7 (26)	2,604	76.4 (64)
Sanilac	161	64.6 (48)	122	45.9 (5)	102	13.7 (41)	49	*	66	*	313	69.0 (69)
Schoolcraf	30	*	22	*	17	*	10	*	13	*	75	*
Shiawassee	319	58.0 (54)	211	32.7 (35)	254	18.1 (26)	67	*	76	*	770	85.2 (33)
St Clair	517	74.7 (32)	358	31.3 (37)	390	15.6 (38)	187	33.7 (15)	200	16.0 (22)	1,292	78.0 (59)
St Joseph	342	83.3 (7)	202	37.1 (28)	229	18.3 (24)	90	*	100	18.0 (18)	838	84.6 (36)
Tuscola	232	76.7 (25)	169	39.6 (18)	174	20.1 (20)	103	35.0 (11)	112	23.2 (7)	658	87.2 (24)

(1) Reporting period is January 1 through December 31.

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(5) Rank compares one County's rate to other Counties. Rank 1 = best rate.

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(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

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Table 7B

2022 Pediatric Nutrition Surveillance ⁽¹⁾

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Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

County	Breastfeeding (6)						Exclusive Breastfeeding (7)		≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% (Rank)
Van Buren	371	70.6 (40)	246	40.2 (16)	275	16.4 (35)	131	26.7 (23)	147	20.4 (13)	851	92.5 (8)
Washtenaw	902	77.1 (23)	604	43.7 (9)	647	25.3 (5)	312	30.1 (19)	305	20.3 (14)	2,246	88.3 (18)
Wayne	11,352	55.5 (55)	7,338	28.1 (40)	7,661	13.5 (42)	2,924	16.7 (25)	3,461	9.2 (30)	26,047	69.3 (68)
Wexford	186	89.2 (1)	141	37.6 (26)	158	17.1 (30)	78	*	100	16.0 (22)	555	87.7 (22)
Michigan	41,954	66.7	28,260	35.0	29,379	17.4	12,038	30.1	14,206	16.9	95,257	78.1
National (Prior Year)	140,405	65.7	68,423	27.2	80,284	14.9	53,747	14.8	61,008	6.5	184,634	77.8

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(5) Rank compares one County's rate to other Counties. Rank 1 = best rate.

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WIC PNSS & PedNSS

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Table 6B

2020 - 2022 Pediatric Nutrition Surveillance (1)

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Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years (2)

Combined 3 Years

Comparison of Growth and Anemia Indicators (3,4)

Comparison of Growth and Anemia Indicators (3,4)												
County	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low	High		Short Stature	Under- Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Alcona	104	8.7 (24)	5.8 (11)	136	5.9 (12)	0.7 (1)	16.2 (80)	64	*	*	68	*
Alger	67	*	*	188	8.5 (45)	2.1 (3)	16.0 (78)	85	*	*	106	7.5 (25)
Allegan	1,135	11.5 (56)	6.6 (25)	4,001	7.7 (30)	4.3 (24)	10.9 (30)	1,727	15.1 (23)	14.2 (11)	2,384	16.0 (60)
Alpena	397	7.8 (13)	8.6 (57)	768	12.4 (77)	7.6 (58)	13.3 (65)	266	16.9 (47)	15.8 (27)	198	17.2 (62)
Antrim	195	6.7 (6)	8.2 (51)	730	7.9 (32)	7.4 (57)	12.5 (56)	323	16.1 (38)	11.8 (4)	405	6.2 (14)
Arenac	268	7.5 (10)	8.2 (51)	579	9.8 (61)	5.7 (36)	14.2 (74)	225	15.6 (34)	21.3 (66)	240	7.1 (18)
Baraga	131	3.8 (1)	12.2 (76)	110	7.3 (26)	5.5 (35)	9.1 (10)	39	*	*	32	*
Barry	532	11.1 (52)	6.4 (19)	841	6.3 (16)	5.4 (34)	9.3 (14)	335	16.4 (43)	14.9 (22)	248	7.3 (20)
Bay	1,350	12.4 (64)	8.0 (47)	1,894	8.0 (37)	4.1 (21)	11.3 (38)	573	18.2 (58)	14.7 (19)	515	9.7 (32)
Benzie	199	12.1 (61)	9.5 (67)	446	5.8 (10)	8.3 (71)	11.9 (49)	180	17.8 (55)	20.0 (63)	219	15.5 (58)
Berrien	1,992	11.0 (51)	5.6 (7)	3,945	8.2 (40)	4.6 (27)	10.4 (24)	1,520	17.3 (50)	14.3 (13)	2,059	7.8 (26)
Branch	865	8.9 (25)	7.5 (39)	1,261	13.6 (80)	7.1 (53)	9.9 (20)	322	12.4 (3)	15.8 (27)	235	20.0 (65)
Calhoun	2,440	11.1 (52)	6.6 (25)	4,040	8.2 (40)	9.2 (75)	9.8 (18)	916	15.3 (28)	18.9 (57)	653	17.3 (63)
Cass	742	8.2 (20)	9.0 (62)	2,540	5.0 (4)	3.2 (9)	11.8 (47)	1,139	14.7 (17)	16.1 (32)	1,489	13.0 (46)

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one County's rate to other Counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

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Table 6B

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Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years (2)

Combined 3 Years

Comparison of Growth and Anemia Indicators (3,4)

Comparison of Growth and Anemia Indicators (3,4)												
County	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low	High		Short Stature	Under- Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Charlevoix	242	9.1 (28)	6.6 (25)	1,060	7.5 (28)	4.2 (23)	11.0 (33)	521	15.4 (29)	14.8 (20)	645	13.2 (47)
Cheboygan	304	10.9 (50)	8.2 (51)	595	8.1 (38)	8.2 (66)	13.6 (67)	216	16.2 (40)	19.0 (59)	155	9.7 (32)
Chippewa	454	6.8 (7)	11.5 (75)	925	13.6 (80)	8.3 (71)	17.3 (81)	366	12.6 (4)	19.4 (60)	224	8.9 (28)
Clare	499	8.2 (20)	8.0 (47)	1,110	10.7 (69)	5.2 (31)	12.4 (53)	460	17.8 (55)	16.3 (34)	415	7.2 (19)
Clinton	334	15.6 (77)	9.6 (68)	500	9.4 (58)	8.2 (66)	12.8 (62)	174	18.4 (60)	16.7 (43)	144	0.7 (1)
Crawford	225	10.2 (41)	7.6 (41)	281	6.0 (13)	3.2 (9)	12.5 (56)	132	17.4 (52)	18.2 (51)	117	13.7 (50)
Delta	504	6.0 (3)	6.7 (29)	1,441	9.4 (58)	1.9 (2)	11.4 (41)	554	19.3 (63)	13.0 (6)	806	7.3 (20)
Dickinson	337	7.1 (8)	6.5 (22)	502	10.2 (65)	6.0 (39)	11.8 (47)	176	11.4 (2)	21.6 (67)	113	13.3 (48)
Eaton	617	13.3 (70)	7.1 (30)	1,060	9.3 (57)	5.8 (37)	11.0 (33)	387	15.8 (36)	16.5 (40)	168	8.9 (28)
Emmet	314	9.9 (34)	7.3 (37)	1,218	6.6 (18)	4.1 (21)	11.2 (36)	576	18.2 (58)	13.2 (8)	686	7.4 (24)
Genesee	6,500	13.2 (69)	5.1 (3)	6,683	11.0 (70)	5.9 (38)	12.4 (53)	2,198	14.7 (17)	16.9 (45)	1,845	18.8 (64)
Gladwin	345	9.9 (34)	7.2 (33)	1,022	10.1 (64)	5.2 (31)	9.2 (13)	476	18.5 (61)	12.8 (5)	520	11.9 (41)
Gogebic	125	9.6 (32)	11.2 (74)	199	2.0 (1)	4.0 (18)	12.1 (51)	103	15.5 (31)	17.5 (48)	103	3.9 (7)
Gr Travers	994	11.1 (52)	9.9 (69)	1,731	4.0 (2)	9.6 (77)	8.0 (4)	559	17.9 (57)	13.1 (7)	411	20.0 (65)

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one County's rate to other Counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

WIC PNSS & PedNSS

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Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years (2)

Combined 3 Years

Comparison of Growth and Anemia Indicators (3,4)

Comparison of Growth and Anemia Indicators (3,4)												
County	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low		High	Short Stature		Under- Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Gratiot	500	8.4 (23)	6.2 (17)	729	8.4 (44)	6.7 (46)	11.7 (46)	221	13.6 (8)	23.1 (69)	202	1.0 (2)
Hillsdale	543	11.8 (59)	5.7 (9)	665	12.0 (75)	2.6 (6)	14.1 (72)	248	11.3 (1)	17.7 (50)	253	14.6 (54)
Houghton	469	6.6 (4)	8.1 (49)	305	7.9 (32)	2.6 (6)	8.5 (7)	150	17.3 (50)	8.0 (1)	180	4.4 (9)
Huron	371	7.8 (13)	10.0 (70)	877	6.7 (23)	3.3 (12)	10.0 (21)	340	19.7 (64)	11.2 (3)	478	5.0 (11)
Ingham	4,584	11.5 (56)	5.9 (12)	7,005	7.9 (32)	9.3 (76)	9.3 (14)	1,858	15.1 (23)	16.4 (37)	1,062	10.8 (35)
Ionia	770	8.1 (17)	8.4 (55)	1,825	5.3 (5)	6.8 (49)	9.5 (17)	631	16.0 (37)	14.6 (17)	858	3.7 (6)
Iosco	352	9.9 (34)	9.1 (63)	448	12.1 (76)	5.1 (30)	11.4 (41)	183	19.1 (62)	14.2 (11)	182	15.4 (57)
Iron	149	10.1 (38)	9.4 (65)	135	7.4 (27)	8.1 (64)	8.1 (5)	52	*	*	58	*
Isabella	949	10.2 (41)	8.6 (57)	1,865	9.6 (60)	7.1 (53)	12.5 (56)	653	16.1 (38)	21.9 (68)	477	7.3 (20)
Jackson	2,497	11.6 (58)	7.6 (41)	4,634	5.8 (10)	12.3 (81)	9.1 (10)	1,276	17.0 (49)	18.5 (53)	1,087	12.4 (45)
Kalamazoo	3,064	11.9 (60)	6.0 (15)	4,575	5.6 (9)	9.1 (74)	7.0 (2)	937	16.9 (47)	14.4 (14)	922	23.5 (69)
Kalkaska	247	10.1 (38)	8.9 (60)	339	9.1 (56)	3.8 (17)	10.3 (22)	142	16.2 (40)	16.2 (33)	153	9.8 (34)
Kent	8,068	14.1 (76)	5.5 (5)	22,701	9.0 (53)	3.3 (12)	12.4 (53)	10,091	15.1 (23)	15.0 (24)	13,052	12.1 (44)
Lake	153	12.4 (64)	5.9 (12)	193	10.4 (66)	7.8 (61)	10.9 (30)	75	*	*	61	*

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one County's rate to other Counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

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Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years (2)

Combined 3 Years

Comparison of Growth and Anemia Indicators (3,4)

Comparison of Growth and Anemia Indicators (3,4)												
County	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low		High	Short Stature		Under- Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Lapeer	932	10.4 (43)	7.1 (30)	1,141	5.3 (5)	7.6 (58)	7.9 (3)	290	14.1 (11)	14.8 (20)	301	16.6 (61)
Leelanau	84	*	*	232	4.3 (3)	4.7 (28)	14.7 (75)	111	16.2 (40)	18.9 (57)	104	6.7 (15)
Lenawee	1,065	8.1 (17)	7.2 (33)	1,387	12.7 (78)	7.7 (60)	13.7 (69)	535	13.6 (8)	20.2 (64)	270	30.4 (72)
Livingston	902	13.5 (73)	6.4 (19)	926	7.9 (32)	4.0 (18)	6.8 (1)	410	15.1 (23)	8.5 (2)	481	4.4 (9)
Luce	99	*	*	248	8.1 (38)	3.2 (9)	10.5 (25)	96	*	*	113	2.7 (5)
Mackinac	81	*	*	235	8.5 (45)	7.2 (55)	14.0 (71)	120	17.5 (53)	18.3 (52)	79	*
Macomb	8,387	12.8 (68)	4.9 (2)	7,735	8.5 (45)	6.7 (46)	10.5 (25)	2,654	14.8 (19)	13.6 (9)	1,990	10.9 (36)
Manistee	222	12.6 (67)	10.4 (71)	228	8.3 (43)	7.9 (62)	11.4 (41)	91	*	*	86	*
Marquette	605	8.1 (17)	7.3 (37)	1,203	8.6 (49)	6.7 (46)	9.1 (10)	383	16.4 (43)	14.4 (14)	208	4.3 (8)
Mason	345	9.0 (26)	6.1 (16)	481	7.9 (32)	6.9 (52)	8.9 (8)	178	12.9 (5)	15.2 (25)	114	11.4 (38)
Mecosta	646	7.7 (11)	6.3 (18)	1,017	8.8 (51)	6.3 (42)	13.6 (67)	450	13.6 (8)	16.4 (37)	257	5.4 (12)
Menominee	198	6.6 (4)	8.6 (57)	536	6.5 (17)	3.5 (14)	15.7 (77)	216	21.8 (69)	20.4 (65)	293	14.3 (53)
Midland	834	9.0 (26)	8.9 (60)	1,583	9.9 (62)	5.0 (29)	11.2 (36)	544	14.9 (21)	16.4 (37)	355	15.8 (59)
Missaukee	183	9.3 (29)	8.2 (51)	204	5.4 (7)	4.4 (25)	11.3 (38)	87	*	*	100	7.0 (16)

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one County's rate to other Counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

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Run Date: 5/25/2023

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Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years (2)

Combined 3 Years

Comparison of Growth and Anemia Indicators (3,4)

Comparison of Growth and Anemia Indicators (3,4)												
County	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low		High	Short Stature		Under- Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Monroe	1,684	9.6 (32)	7.2 (33)	2,348	11.1 (72)	9.9 (78)	10.9 (30)	589	15.4 (29)	18.8 (56)	436	13.5 (49)
Montcalm	853	12.2 (62)	5.7 (9)	1,178	8.6 (49)	6.4 (44)	9.4 (16)	373	12.9 (5)	15.5 (26)	330	1.8 (3)
Montmorenc	125	10.4 (43)	6.4 (19)	239	8.8 (51)	11.7 (80)	12.6 (59)	79	*	*	73	*
Muskegon	3,194	12.2 (62)	5.9 (12)	4,981	9.0 (53)	7.9 (62)	10.7 (27)	1,232	14.5 (15)	16.5 (40)	890	15.3 (56)
Newaygo	955	10.6 (48)	7.2 (33)	1,470	11.2 (73)	5.2 (31)	13.1 (64)	558	16.5 (45)	18.5 (53)	286	7.3 (20)
Oakland	8,773	13.3 (70)	5.6 (7)	12,557	10.5 (67)	8.2 (66)	10.8 (29)	3,971	15.2 (27)	14.4 (14)	2,470	24.9 (71)
Oceana	393	10.4 (43)	7.9 (45)	706	6.9 (24)	6.2 (41)	12.6 (59)	287	20.2 (65)	19.5 (62)	285	11.9 (41)
Ogemaw	308	7.8 (13)	7.1 (30)	518	7.7 (30)	3.7 (15)	12.0 (50)	222	16.7 (46)	16.7 (43)	286	7.0 (16)
Ontonagon	42	*	*	65	*	*	*	29	*	*	34	*
Osceola	404	12.4 (64)	7.9 (45)	464	11.4 (74)	4.5 (26)	12.7 (61)	191	14.1 (11)	19.4 (60)	201	11.4 (38)
Oscoda	102	4.9 (2)	10.8 (73)	163	6.1 (14)	6.1 (40)	12.9 (63)	64	*	*	83	*
Otsego	309	10.4 (43)	8.4 (55)	1,249	6.6 (18)	8.2 (66)	12.2 (52)	523	20.8 (66)	16.3 (34)	705	14.8 (55)
Ottawa	2,440	11.1 (52)	7.5 (39)	7,652	5.5 (8)	4.0 (18)	11.0 (33)	3,375	14.8 (19)	13.7 (10)	4,630	24.1 (70)
Presque Is	104	10.6 (48)	12.5 (77)	182	8.2 (40)	11.0 (79)	13.7 (69)	69	*	*	54	*

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one County's rate to other Counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years (2)

Combined 3 Years

Comparison of Growth and Anemia Indicators (3,4)

Comparison of Growth and Anemia Indicators (3,4)												
County	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low	High		Short Stature	Under- Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Roscommon	272	7.7 (11)	6.6 (25)	532	7.5 (28)	6.8 (49)	14.1 (72)	211	14.2 (13)	17.5 (48)	184	6.0 (13)
Saginaw	3,094	13.8 (74)	5.1 (3)	4,485	6.1 (14)	8.9 (73)	8.1 (5)	941	15.5 (31)	14.9 (22)	831	13.7 (50)
Sanilac	447	8.3 (22)	6.5 (22)	568	13.4 (79)	2.1 (3)	16.0 (78)	237	13.1 (7)	18.6 (55)	328	11.6 (40)
Schoolcraf	106	9.4 (31)	9.4 (65)	257	6.6 (18)	2.3 (5)	14.8 (76)	97	*	*	114	2.6 (4)
Shiawassee	920	9.3 (29)	7.7 (44)	890	6.6 (18)	8.1 (64)	8.9 (8)	287	20.9 (68)	17.1 (46)	268	9.0 (30)
St Clair	1,652	10.0 (37)	6.5 (22)	3,508	8.5 (45)	7.2 (55)	10.7 (27)	1,195	14.6 (16)	17.2 (47)	1,257	13.7 (50)
St Joseph	1,003	7.1 (8)	10.4 (71)	1,576	11.0 (70)	6.6 (45)	11.3 (38)	496	17.5 (53)	16.5 (40)	402	11.9 (41)
Tuscola	695	7.9 (16)	8.1 (49)	1,785	7.2 (25)	6.3 (42)	11.4 (41)	725	15.6 (34)	15.9 (29)	678	10.9 (36)
Van Buren	1,107	10.4 (43)	7.6 (41)	3,911	6.6 (18)	3.7 (15)	13.4 (66)	1,708	14.9 (21)	16.0 (31)	2,235	8.4 (27)
Washtenaw	2,711	13.4 (72)	5.5 (5)	3,978	10.5 (67)	6.8 (49)	9.8 (18)	1,325	15.5 (31)	14.6 (17)	937	21.2 (68)
Wayne	34,666	14.0 (75)	4.5 (1)	34,836	9.9 (62)	8.2 (66)	10.3 (22)	10,004	14.3 (14)	15.9 (29)	8,163	20.1 (67)
Wexford	624	10.1 (38)	9.3 (64)	586	9.0 (53)	3.1 (8)	11.6 (45)	240	20.8 (66)	16.3 (34)	258	9.3 (31)
Michigan	126,528	12.3	5.9	194,007	8.7	6.6	6.6	66,687	15.4	17.6	65,421	14.3

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one County's rate to other Counties. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

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Run Date: 5/25/2023

Table 7B

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Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County (2)

Children Aged < 5 Years (3)

Combined 3 Years

Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5)

County	Breastfeeding (6)						Exclusive Breastfeeding (7)		≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed	Number	% Breastfed At Least 6 Months	Number	% Breastfed At Least 12 Months	Number	% Breastfed At Least 3 Months	Number	%	Number	%
	(Rank)		(Rank)		(Rank)		(Rank)		(Rank)		(Rank)	
Alcona	105	64.8 (68)	55	*	69	*	35	*	38	*	216	84.7 (45)
Alger	67	*	63	*	60	*	39	*	48	*	207	78.7 (67)
Allegan	1,158	66.4 (63)	750	35.1 (37)	969	18.7 (25)	430	29.5 (24)	539	15.4 (26)	2,726	90.8 (8)
Alpena	398	70.6 (48)	282	34.8 (38)	309	12.3 (67)	153	24.8 (40)	202	10.9 (51)	868	87.8 (28)
Antrim	210	76.2 (28)	135	41.5 (14)	137	21.9 (10)	72	*	102	21.6 (8)	480	86.5 (34)
Arenac	268	73.5 (39)	170	35.3 (34)	216	16.2 (44)	96	*	133	10.5 (53)	611	88.1 (21)
Baraga	132	80.3 (16)	86	*	86	*	49	*	78	*	267	88.4 (18)
Barry	540	80.6 (14)	265	34.0 (42)	337	20.8 (15)	164	33.5 (12)	228	18.4 (14)	1,254	86.9 (30)
Bay	1,360	67.7 (60)	740	29.5 (59)	1,160	15.4 (50)	369	21.7 (49)	609	6.4 (66)	3,186	86.6 (31)
Benzie	199	79.9 (17)	143	37.8 (24)	129	23.3 (8)	82	*	122	16.4 (18)	467	77.9 (69)
Berrien	2,001	70.2 (49)	1,391	34.7 (39)	1,132	15.9 (47)	880	24.4 (41)	1,062	12.7 (43)	3,559	73.9 (77)
Branch	879	68.9 (56)	546	30.6 (58)	575	15.0 (53)	279	16.8 (56)	380	11.1 (50)	1,630	78.7 (67)
Calhoun	2,469	67.8 (59)	1,521	31.8 (56)	1,793	15.0 (53)	676	22.8 (45)	900	11.3 (47)	4,905	94.2 (3)

(1) Reporting period is January 1 through December 31.

(2) TV Viewing and Smoking in Household data are not reported by all contributors.

(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

(5) Rank compares one County's rate to other Counties. Rank 1 = best rate.

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Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County (2)

Children Aged < 5 Years (3)

Combined 3 Years

Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5)

County	Breastfeeding (6)				Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)
Cass	748	76.1 (29)	495	40.0 (17)	580	16.7 (41)	334	34.7 (10)	390	22.8 (5)	1,777	97.6 (1)
Charlevoix	266	83.8 (5)	204	44.1 (9)	178	19.7 (21)	121	39.7 (6)	176	20.5 (10)	756	92.6 (5)
Cheboygan	305	77.0 (24)	202	39.6 (18)	230	16.1 (45)	132	35.6 (8)	162	16.7 (15)	652	86.3 (36)
Chippewa	457	65.6 (67)	276	36.2 (31)	294	25.2 (7)	138	32.6 (17)	193	22.3 (6)	981	89.2 (15)
Clare	499	66.3 (64)	380	33.7 (44)	424	14.2 (56)	225	27.6 (30)	286	15.0 (29)	1,288	87.9 (27)
Clinton	338	81.7 (8)	185	38.9 (20)	219	18.7 (25)	98	*	147	13.6 (39)	791	84.8 (44)
Crawford	228	78.9 (18)	151	45.0 (7)	171	26.3 (5)	95	*	127	20.5 (10)	504	80.2 (65)
Delta	507	75.7 (31)	381	41.7 (12)	415	16.9 (39)	237	26.6 (34)	277	14.1 (35)	983	83.2 (53)
Dickinson	336	72.6 (40)	263	44.5 (8)	276	20.7 (17)	151	46.4 (2)	202	24.3 (2)	882	90.6 (10)
Eaton	630	81.0 (11)	316	28.5 (62)	399	17.8 (32)	164	24.4 (41)	267	10.9 (51)	1,377	80.9 (63)
Emmet	320	85.9 (3)	231	51.1 (3)	241	27.0 (3)	125	54.4 (1)	188	27.7 (1)	852	84.5 (47)
Genesee	6,527	53.3 (77)	3,885	23.6 (68)	4,377	11.7 (69)	1,730	16.5 (57)	2,380	8.2 (64)	14,009	81.2 (62)
Gladwin	346	78.3 (19)	255	47.1 (4)	284	20.1 (20)	141	41.8 (4)	204	16.2 (20)	1,052	83.3 (50)
Gogebic	127	70.1 (51)	123	40.7 (16)	127	18.1 (30)	53	*	84	*	359	80.2 (65)

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Combined 3 Years

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County	Breastfeeding (6)				Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)
Gr Travers	1,004	84.0 (4)	592	46.5 (5)	729	27.0 (3)	334	37.7 (7)	449	15.4 (26)	2,110	87.3 (29)
Gratiot	504	76.4 (27)	313	37.1 (26)	331	21.1 (14)	147	29.3 (26)	226	13.7 (37)	1,136	83.6 (48)
Hillsdale	549	68.5 (58)	342	32.7 (52)	325	17.8 (32)	163	31.3 (20)	234	19.2 (12)	1,193	86.0 (39)
Houghton	472	86.9 (2)	368	55.2 (1)	353	26.1 (6)	249	30.9 (21)	304	16.1 (21)	1,187	91.2 (6)
Huron	371	78.2 (20)	216	34.7 (39)	219	15.5 (49)	150	24.0 (43)	181	9.4 (60)	773	83.3 (50)
Ingham	4,627	74.4 (38)	2,639	33.7 (44)	3,286	17.8 (32)	1,350	22.4 (47)	1,908	11.2 (49)	10,447	85.5 (40)
Ionia	775	80.4 (15)	553	38.7 (23)	657	17.4 (37)	332	33.4 (15)	425	18.6 (13)	1,695	86.4 (35)
Iosco	351	61.5 (70)	223	29.1 (61)	243	13.6 (61)	108	25.9 (36)	146	13.0 (40)	763	83.4 (49)
Iron	145	76.6 (26)	98	*	114	18.4 (28)	70	*	84	*	449	88.0 (26)
Isabella	950	67.3 (62)	610	33.3 (49)	662	14.2 (56)	316	27.2 (32)	419	13.8 (36)	2,119	86.6 (31)
Jackson	2,511	69.3 (54)	2,210	36.2 (31)	2,069	13.1 (63)	1,114	25.1 (39)	1,601	13.7 (37)	6,260	75.7 (76)
Kalamazoo	3,123	67.6 (61)	2,075	32.5 (54)	2,094	15.3 (51)	1,232	27.4 (31)	1,607	10.5 (53)	6,454	72.4 (79)
Kalkaska	247	83.8 (5)	170	46.5 (5)	211	29.9 (1)	103	41.7 (5)	134	16.4 (18)	485	89.9 (12)
Kent	8,212	68.9 (56)	5,021	33.5 (47)	5,482	16.6 (42)	2,616	21.4 (52)	3,422	11.5 (45)	14,490	81.4 (61)

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Combined 3 Years

Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5)

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	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)
Lake	153	72.5 (41)	91	*	130	13.8 (58)	57	*	73	*	358	77.9 (69)
Lapeer	939	75.0 (35)	717	36.5 (29)	789	17.7 (35)	422	22.0 (48)	572	8.7 (62)	2,217	86.6 (31)
Leelanau	86	*	69	*	53	*	30	*	55	*	254	76.0 (75)
Lenawee	1,066	70.7 (47)	701	34.0 (42)	683	20.6 (18)	416	26.9 (33)	559	15.7 (25)	2,189	77.8 (71)
Livingston	906	69.9 (52)	583	37.0 (27)	662	17.2 (38)	323	29.4 (25)	400	14.8 (31)	2,486	82.8 (56)
Luce	100	75.0 (35)	76	*	75	*	37	*	50	*	271	85.2 (41)
Mackinac	81	*	59	*	77	*	32	*	45	*	311	82.0 (59)
Macomb	8,441	61.6 (69)	5,919	27.6 (64)	6,722	12.2 (68)	3,427	16.5 (57)	4,296	8.8 (61)	17,727	83.0 (55)
Manistee	225	71.6 (44)	175	44.0 (10)	214	19.2 (23)	99	*	136	24.3 (2)	697	90.8 (8)
Marquette	610	80.7 (13)	323	35.3 (34)	501	21.8 (11)	123	46.3 (3)	181	16.6 (16)	1,519	96.7 (2)
Mason	345	74.5 (37)	222	35.6 (33)	296	16.9 (39)	145	30.3 (23)	175	9.7 (58)	835	85.0 (43)
Mecosta	648	71.6 (44)	440	33.0 (51)	574	18.3 (29)	213	27.7 (29)	281	9.6 (59)	1,412	90.4 (11)
Menominee	197	59.4 (74)	137	33.6 (46)	141	13.5 (62)	79	*	92	*	338	82.2 (58)
Midland	837	75.7 (31)	546	36.6 (28)	467	21.4 (13)	330	30.6 (22)	453	16.1 (21)	1,855	88.1 (21)

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	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)
Missaukee	184	87.0 (1)	133	53.4 (2)	144	29.9 (1)	95	*	108	23.1 (4)	494	90.9 (7)
Monroe	1,697	59.1 (75)	1,227	28.3 (63)	1,206	13.8 (58)	697	21.1 (53)	902	8.6 (63)	3,443	80.4 (64)
Montcalm	861	81.1 (10)	520	36.5 (29)	536	21.8 (11)	233	33.5 (12)	374	15.8 (23)	1,781	85.1 (42)
Montmorenc	127	77.2 (22)	90	*	86	*	51	*	70	*	221	83.3 (50)
Muskegon	3,206	60.4 (73)	1,817	24.9 (66)	2,357	12.5 (65)	984	21.6 (50)	1,163	9.8 (57)	6,136	68.0 (81)
Newaygo	960	78.0 (21)	564	33.3 (49)	842	19.2 (23)	258	35.3 (9)	425	12.9 (41)	2,499	88.1 (21)
Oakland	8,971	69.7 (53)	5,791	32.7 (52)	5,524	16.0 (46)	3,590	20.8 (55)	4,334	12.5 (44)	18,849	72.3 (80)
Oceana	401	77.1 (23)	245	41.6 (13)	351	20.8 (15)	147	27.9 (28)	192	9.9 (56)	1,094	88.3 (19)
Ogemaw	309	66.3 (64)	191	29.3 (60)	217	13.8 (58)	104	31.7 (19)	145	14.5 (33)	721	84.6 (46)
Ontonagon	42	*	30	*	36	*	22	*	28	*	117	86.3 (36)
Osceola	405	72.3 (42)	289	38.8 (22)	309	19.7 (21)	180	32.8 (16)	206	15.0 (29)	942	89.1 (16)
Oscoda	104	70.2 (49)	61	*	78	*	40	*	43	*	235	88.1 (21)
Otsego	368	75.8 (30)	264	43.6 (11)	238	20.2 (19)	156	34.0 (11)	220	21.4 (9)	777	83.1 (54)
Ottawa	2,739	77.0 (24)	1,655	39.4 (19)	2,049	18.6 (27)	907	28.3 (27)	1,124	15.3 (28)	5,138	92.7 (4)

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Presque Is	104	80.8 (12)	72	*	72	*	47	*	63	*	210	89.0 (17)
Roscommon	273	72.2 (43)	189	32.3 (55)	204	12.7 (64)	100	21.0 (54)	133	12.8 (42)	651	82.8 (56)
Saginaw	3,110	60.7 (71)	1,964	22.4 (69)	1,972	10.6 (70)	1,239	14.6 (59)	1,499	7.1 (65)	7,492	76.1 (74)
Sanilac	467	55.7 (76)	316	33.5 (47)	317	14.8 (55)	170	33.5 (12)	239	22.2 (7)	933	73.1 (78)
Schoolcraf	106	70.8 (46)	81	*	71	*	47	*	60	*	231	77.1 (73)
Shiawassee	928	60.6 (72)	593	30.7 (57)	789	15.6 (48)	306	25.8 (38)	405	14.8 (31)	2,157	81.8 (60)
St Clair	1,655	65.7 (66)	1,083	25.9 (65)	1,410	12.4 (66)	616	21.6 (50)	854	10.5 (53)	3,628	77.7 (72)
St Joseph	1,015	82.7 (7)	665	37.4 (25)	793	17.9 (31)	365	26.6 (34)	442	15.8 (23)	2,708	86.2 (38)
Tuscola	699	75.7 (31)	476	35.3 (34)	553	16.6 (42)	280	22.5 (46)	379	11.3 (47)	1,883	88.3 (19)
Van Buren	1,151	69.3 (54)	708	34.7 (39)	889	15.3 (51)	450	24.0 (43)	534	11.4 (46)	2,686	89.4 (14)
Washtenaw	2,762	75.2 (34)	1,827	40.9 (15)	1,976	22.0 (9)	1,145	25.9 (36)	1,303	16.6 (16)	6,376	89.9 (12)
Wayne	35,391	53.1 (78)	22,677	24.1 (67)	23,822	10.3 (71)	13,294	10.1 (60)	16,637	5.5 (67)	75,981	67.9 (82)
Wexford	628	81.7 (8)	478	38.9 (20)	527	17.5 (36)	293	32.1 (18)	392	14.5 (33)	1,546	88.1 (21)

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Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County (2)

Children Aged < 5 Years (3)

Combined 3 Years

Michigan	128,634	64.4	83,013	30.5	90,750	14.6	46,915	20.1	60,313	10.5	277,687	78.3	571,496	1.8
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